NEWFAST NF-U353

NEWFAST AXE5400 USB WiFi 6E Adapter NF-U353 User Manual

Model: NF-U353

Introduction   Package Contents   System Requirements   Setup   Operating Instructions   Features & Technology   Maintenance   Troubleshooting   Specifications   Warranty & Support

1. INTRODUCTION

The NEWFAST AXE5400 USB WiFi 6E Adapter (Model NF-U353) is designed to provide high-speed wireless connectivity for desktop PCs and laptops. This tri-band adapter supports the latest WiFi 6E standard, offering enhanced performance across 2.4 GHz, 5 GHz, and the new 6 GHz bands. It integrates advanced technologies like MU-MIMO, OFDMA, and WPA3 encryption for a stable, secure, and efficient network experience.

This manual provides detailed instructions for setting up, operating, and maintaining your NF-U353 WiFi adapter.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x NEWFAST AXE5400 USB WiFi Adapter (NF-U353)
- 1 x User Manual

Image: The NEWFAST AXE5400 USB WiFi Adapter with its dual adjustable antennas.

3. SYSTEM REQUIREMENTS

- **Operating System:** Windows 10 (32-bit/64-bit) or Windows 11 (64-bit)
- **USB Port:** USB 3.0 port recommended for optimal performance. Compatible with USB 2.0 ports at reduced speeds.
- **Router:** A WiFi 6E compatible router is recommended to fully utilize the 6 GHz band and AX5400 speeds.

4. SETUP GUIDE

The NF-U353 adapter features a pre-installed driver for Windows 10/11, allowing for a simple plug-and-play installation process. No physical CD-ROM is required.

Step-by-Step Installation:

1. **Insert the Adapter:** Plug the NEWFAST AXE5400 USB WiFi Adapter into an available USB 3.0 port on your desktop PC or laptop.

Image: Illustration showing the USB WiFi adapter being inserted into a computer's USB port.

2. **Driver Installation:** Your computer should automatically recognize the adapter and prompt you to install the built-in driver. Follow the on-screen instructions to complete the installation. If no prompt appears, navigate to 'This PC' or 'My Computer', locate the virtual CD drive (often labeled 'NEWFAST' or similar), and double-click the installer executable.

Image: A computer screen displaying a prompt for driver installation after inserting the adapter.

3. **Connect to Wi-Fi:** Once the driver installation is complete, click on the Wi-Fi icon in your system tray (bottom-right corner of the screen). Select your desired Wi-Fi network (SSID) from the list of available networks, enter the password, and click 'Connect'.

Multiple Working Modes to Meet Your Needs

Receive WiFi
Connect your desktop/laptop to WiFi

Launch WiFi
Create a WiFi hospot for sharing

Image: A computer screen showing available Wi-Fi networks and the process of connecting to one.

Installation Video Guide:

For a visual guide on the installation process, please refer to the official video below:

Your browser does not support the video tag.

Video: Official NF-U353 Installation Program Guide by SEHU NT. This video demonstrates the step-by-step driver installation and network connection process for the NEWFAST AXE5400 USB WiFi Adapter.

5. OPERATING INSTRUCTIONS

Connecting to a Wi-Fi Network:

- After successful driver installation, the adapter will automatically scan for available Wi-Fi networks.
- Click the Wi-Fi icon in the system tray, select your network, enter the password, and connect.
- For 6 GHz band connectivity, ensure your router supports WiFi 6E and your operating system is Windows 11.

Windows 10 supports 2.4 GHz and 5 GHz bands.

Optimizing Signal:

The NF-U353 adapter features dual adjustable antennas. You can rotate and position these antennas to optimize signal reception and improve wireless performance.

Image: The NEWFAST AXE5400 USB WiFi Adapter with its adjustable antennas, illustrating how they can be positioned for optimal signal.

Soft AP Mode:

The adapter supports Soft AP mode, allowing you to create a Wi-Fi hotspot on your desktop computer. This enables other devices to connect to your computer's internet connection without needing a separate router.
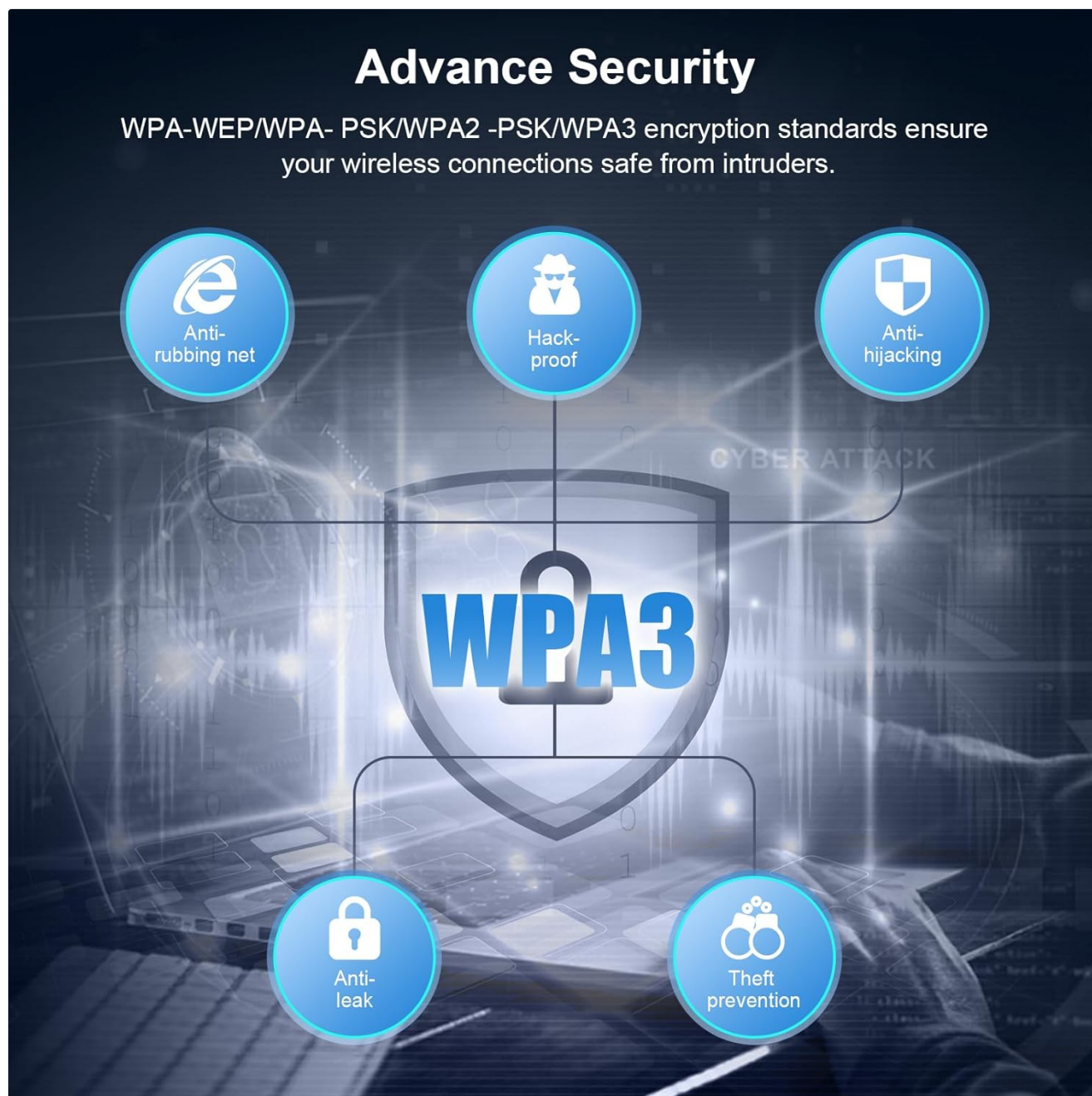

Image: Diagram illustrating the adapter's ability to both receive Wi-Fi and create a Wi-Fi hotspot (Soft AP mode).

6. FEATURES AND TECHNOLOGY

- **Blazing-Fast WiFi 6E Connectivity:** Offers AX5400Mbps speeds (2402Mbps on 6 GHz, 2402Mbps on 5 GHz, or 574Mbps on 2.4 GHz). The 6 GHz band provides clearer, broader, and less congested channels for faster speeds.
- **Cutting-edge Technology:** Supports WiFi 6E, 4K-QAM, MU-MIMO, and OFDMA, increasing network capacity and efficiency for demanding tasks like 8K streaming and online gaming.
- **USB 3.0 Enhanced Data Transfer:** Ensures data transfer speeds up to 10 times faster than USB 2.0, crucial for high-bandwidth applications.
- **Advanced Security:** Supports WPA3 encryption for enhanced wireless network security, protecting your connection from unauthorized access.

Image: Visual representation of the adapter's WiFi 6E chip and its performance across different frequency bands (2.4G, 5G, 6G).

Play Games on WiFi 6E and Reduce Latency

Ping ± 27ms
League of Legends

Ping ± 30ms
World of Tanks

Ping ± 22ms
Overwatch

Ping ± 25ms
PUBG

Note: The above data has been tested in the laboratory and is close to the ideal state. It is only for reference !

Fast speed
Boosting WiFi speed at home
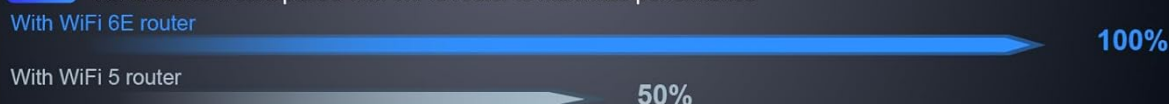
| WiFi 6E | 2400Mbps | 6G | 5.0Gbps |
| WiFi 5 | 2400Mbps | 5G | 1.9Gbps |

Strong performance
WiFi6 network card paired with WiFi6 router to maximize performance

With WiFi 6E router — 100%
With WiFi 5 router — 50%

Low latency
Playing esports games, watching live videos, low WiFi latency
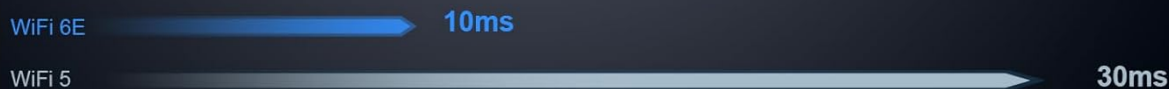
WiFi 6E — 10ms
WiFi 5 — 30ms

Image: Chart comparing the fast speed, strong performance, and low latency benefits of WiFi 6E for gaming and other applications.

7. MAINTENANCE

- **Keep Drivers Updated:** While the adapter comes with a built-in driver, periodically check the NEWFAST official website for the latest driver updates to ensure optimal performance and compatibility.
- **Physical Care:** Keep the adapter clean and free from dust. Avoid exposing it to extreme temperatures or moisture.
- **Secure Connection:** Ensure the adapter is securely plugged into the USB port to prevent intermittent connectivity issues.

8. TROUBLESHOOTING

No Wi-Fi Connection:

- Ensure the adapter is correctly inserted into a USB port.

- Verify that the driver is installed. Check Device Manager under 'Network adapters' for 'Realtek 8812AU Wireless LAN WiFi 7 USB NIC' or similar.
- Restart your computer after driver installation.
- Check if your Wi-Fi network is visible and you are entering the correct password.

Slow Speed:

- Ensure the adapter is plugged into a USB 3.0 port (usually blue inside).
- Position the antennas for optimal signal strength.
- Ensure your router supports WiFi 6E and is configured for the 6 GHz band for maximum speeds.
- Reduce interference by moving the adapter away from other electronic devices.

Intermittent Connection:

- Ensure the adapter is firmly seated in the USB port.
- Check for updated drivers from the NEWFAST website.
- Test the adapter in a different USB port or on another computer to rule out port issues.

9. SPECIFICATIONS

Feature	Detail
Model	NF-U353
Brand	NEWFAST
Wireless Standard	IEEE 802.11ax/ac/a/b/g/n, WiFi 6E
Data Transfer Rate	AX5400 (2402 Mbps on 6 GHz, 2402 Mbps on 5 GHz, 574 Mbps on 2.4 GHz)
Hardware Interface	USB 3.0
Compatible OS	Windows 10 (32/64-bit), Windows 11 (64-bit)
Security	WPA3, WPA2-PSK, WPA-PSK, WPA-WEP
Antennas	Dual High-Gain Antennas
Product Dimensions	3.37 x 0.39 x 1.84 inches
Item Weight	1.6 ounces

10. WARRANTY AND SUPPORT

NEWFAST products typically come with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official NEWFAST website for specific warranty terms and conditions.

For technical support, troubleshooting assistance, or any inquiries regarding your NEWFAST AXE5400 USB WiFi 6E Adapter, please contact NEWFAST customer support through their official website or the contact information provided in your product documentation.